## From Organic electronics and Internet of Things to Neuromorphic Computing: What Nanotechnology Can Do

## Franz Faupe

Chair for Multicomponent Materials, Faculty of Engineering, Kiel University, Kaiserstr. 2, 24143 Kiel, Germany, ff@tf.uni-kiel.de, www.tf.uni-kiel.de/matwis/matv

## **ABSTRACT**

Electronics, communications and computing had a dramatic impact on the development of humankind during the last decades that now affects almost every aspect of our daily life. It can be foreseen that this influence will become even more important in the future resulting in new societal challenges including a strongly increasing energy consumption and environmental pollution. Here we illustrate that the huge progress in electronics, communications and computing was mainly driven by corresponding developments in nanotechnology and new materials, which proved to be a key enabling technology.